



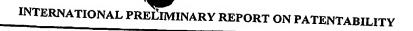


PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

(FCT Article 36 and Rule 70)						
Applicant's or agent's file reference MEJ-696	FOR FURTHER	ACTION	See Form PCT/IPEA/416			
International application No. PCT/JP2003/014013		date (day/month/year)	Priority date (day/month/year)			
PC1/JP2003/014013 31 October 2003 (31.10.2003) 31 October 2002 (31.10.2002) International Patent Classification (IPC) or national classification and IPC C12N 9/42, 15/56, 5/10, 1/15, 1/19, 1/21						
Applicant MEIJI SEIKA KAISHA, LTD.						
This report is the international prelim Authority under Article 35 and transr	ninary examination remained to the applican	eport, established by this at according to Article 36.	International Preliminary Examining			
 This REPORT consists of a total of _ This report is also accompanied by A 	sheets, including this cover sheet.					
a. (sent to the applicant and t			sheets, as follows:			
sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).						
sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.						
b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)) 1 , containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).						
4. This report contains indications relating to the following items:						
Box No. I Basis of the report						
	Box No. II Priority					
	Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability					
citations and explanations supporting such statement						
Box No. VII Certain defects in the international application Box No. VIII Certain observations on the international application						
Date of submission of the demand		Date of completion of the				
16 April 2004 (16.04.2004)			•			
Name and mailing address of the IPEA/JP		Authorized officer	gust 2004 (11.08.2004)			
Facsimile No.		Telephone No.				



International application No.

PCT/JP2003/014013

Day M.	-		PCT/JP2003/014013
Box No		Basis of the report	
1. With other		I to the language, this report is based on the international application in the landicated under this item.	
Ш	This which	report is based on translations from the original language into the following the language of a translation furnished for the purpose of:	ng language,
		international search (under Rules 12.3 and 23.1(b))	
		publication of the international application (under Rule 12.4)	
		international preliminary examination (under Rules 55.2 and/or 55.3)	
and a	re not	to the elements of the international application, this report is based on the receiving Office in response to an invitation under Article 14 are referramexed to this report): ternational application as originally filed/furnished	(replacement sheets which have been ed to in this report as "originally filed"
	the de	scription:	
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Ti mi (R	ule 70	ort has been established as if (some of) the amendments annexed to this rence they have been considered to go beyond the disclosure as filed, as in .2(c)).	port and listed below had not been ndicated in the Supplemental Box
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느	_ the	claims, Nos.	
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J. 5111 T		s, some or all of those sheets may be marked "superseded."	
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INTERNATIONAL PRED INTERNATIONAL PROPRIETA PRO

Internal application No.
PCT/JP03/14013

Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
ty (N)	Claims	1-21	YES	
	Claims		NO	
ive step (IS)	Claims	2, 4-5	YES	
	Claims	1, 3, 6-21	МО	
rial applicability (IA)	Claims	1-21	YES	
	Claims		NO	
j	citations and explanat	ty (N) Claims Claims ive step (IS) Claims Claims Claims Claims Claims Claims	ty (N) Claims 1-21 Claims ive step (IS) Claims 2, 4-5 Claims 1, 3, 6-21 rial applicability (IA) Claims 1-21	

2. Citations and explanations (Rule 70.7)

Document 1: WO, 01/90375, A1 (Meiji Seika Kaisha, Ltd.), 29 November, 2001

Claims 1, 3, 6-21

The inventions described in claims 1, 3 and 6-21 do not appear to involve an inventive step based on document 1 cited in the ISR.

Document 1 describes a cellulase having the amino acid sequence represented by SEQ ID NO: 1. In the inventions of claims 1, 3 and 6-21, introducing a mutation to the cellulase in the inventions described in document 1 at an optional position and producing a mutant having higher cellulase activity than a wild type can be easily achieved by a party skilled in the art.

Claims 2, 4-5

The inventions described in claims 2 and 4-5 are not described in document 1 cited in the ISR and thus they appear to be novel and to involve an inventive step.

A mutant cellulase having amino acid sequences represented by SEQ ID NOS: 3-5 is not described in document 1; nor can this be easily conceived of by a party skilled in the art.

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

Internal application No.
PCT/JP03/14013

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			l Box Relating to Sequence Listing	
Cor	itini	ation	of Box No. 1, item 2:	
1.	Witl inve	n regar ntion,	rd to any nucleotide and/or amino acid sequence disclosed in the international this report was established on the basis that of:	l application and necessary to the claimed
	a.	type	of material	
		\boxtimes	a sequence listing	
			table(s) related to the sequence listing	
	b.	form	nat of material	
			in written format	
		\boxtimes	in computer readable form	
	c.	time	of filing/furnishing	
			contained in the international application as filed	
			filed together with the international application in computer readable form	
			furnished subsequently to this Authority for the purpose of search and/or exa	amination .
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2.	₪	OI IUI	Idition, in the case that more than one version or copy of a sequence listing an rnished, the required statements that the information in the subsequent or addication as filed or does not go beyond the application as filed, as appropriate, or	litional conjectic identical to that in the
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